

LINEAR TECHNOLOGY MATERIALS DECLARATION

LTC4252CIMS-1#PBF

(Engineering Calculation)

MSOP

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TOTAL MASS (g): 0.026752

COMPONENT MATERIAL	VENDOR/INDUSTRY NAMES	CONSTITUENT NAME	CAS NUMBER	CONSTITUENT MASS (g)	CONSTITUENT (PPM) OF MATERIAL	CONSTITUENT (PPM) OF TOTAL Pkg.		
Active Device	Linear Technology	Silicon (Si)	7440-21-3	0.001595	1000000	59621.65625		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.010433	975000	38989.15625		
		Iron (Fe)	7439-89-6	0.000257	24000	9606.75		
		Phosphorus (P)	7723-14-0	0.000003	300	112.14104617		
		Zinc (Zn)	7440-66-6	0.000007	700	261.662445068		
		Nickel (Ni)	7440-02-0	0.000000	0	0		
		Silicon (Si)	7440-21-3	0.000000	0	0		
		Magnesium (Mg)	7439-95-4	0.000000	0	0		
		Tin (Sn)	7440-31-5	0.000000	0	0		
		Lead Frame Total:				0.010700	1000000	399909.71875
		Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
Exter. Plating Sn	7440-31-5			0.000710	1000000	26540.9804688		
External Plating Total:						0.000710	1000000	26540.9804688
Inter. Plating Ni	7440-02-0			0.000000	0	0		
Inter. Plating Ag	7440-22-4			0.000086	1000000	3214.70996094		
Internal Plating Total:						0.000086	1000000	3214.70996094
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000591	750000	22091.78151562		
		Tin (Sn)	7440-31-5	0.000000	0	0		
		Lead (Pb)	7439-92-1	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.000000	0	0		
		Indium (In)	7440-74-6	0.000000	0	0		
		Metal Oxide		0.000000	0	0		
		Antimony (Sb)	7440-36-0	0.000000	0	0		
		Resin (EP)		0.000197	250000	7843.92871094		
		Die Attach Total:				0.000788	1000000	29455.7148438
		Encapsulation	MULTIAROMATIC RESIN BOND FREE	Resin (EP)		0.001659	130000	62013.9960938
				Bromine (Br)	40039-03-8	0.000000	0	0
Silica (SiO2)	60676-86-0			0.010591	830000	395895.28125		
Antimony Trioxide (Sb2O3)	1309-64-4			0.000000	0	0		
Metal Hydroxide				0.000447	35000	16709.015625		
Carbon Black (C)	1333-86-4			0.000064	5000	2392.34228516		
Encapsulation Total:						0.012761	1000000	477010.59375
Bond Wire Estimated	AFW/TANAKA/Kn	Gold (Au)	7440-57-5	0.000112	1000000	4186.59912109		

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